

Field Artillery Transformation



Mr. Sam Coffman

Futures Development Integration Center

Agenda

- ➡ Our Transformation Process within Joint and Army Transformation
- ➡ Looking at the Force Over Time from Capabilities Required Perspective
- ➡ Operational Challenges and Recent Lessons Learned
- ➡ Materiel Modernization Update for Field Artillery
- ➡ Rapid Fielding and Equipping Initiatives
- ➡ Organizational Transformation
- ➡ Our Focus and Challenges

Army Transformation

**Current
Force**

Enhanced
Capabilities

Increasingly:

- Integrated
- Expeditionary
- Networked
- Decentralized
- Adaptable
- Decision Superior
- Lethal

Accelerated
Development
and Fielding

**Future
Force**

Transformation
Transformation

Impacting the Strategy

Challenges

FA Transformation

TAA-11 & ACIRC Rebalancing

Stryker Force Refinement

Programmatics

FCS and UA Timeline

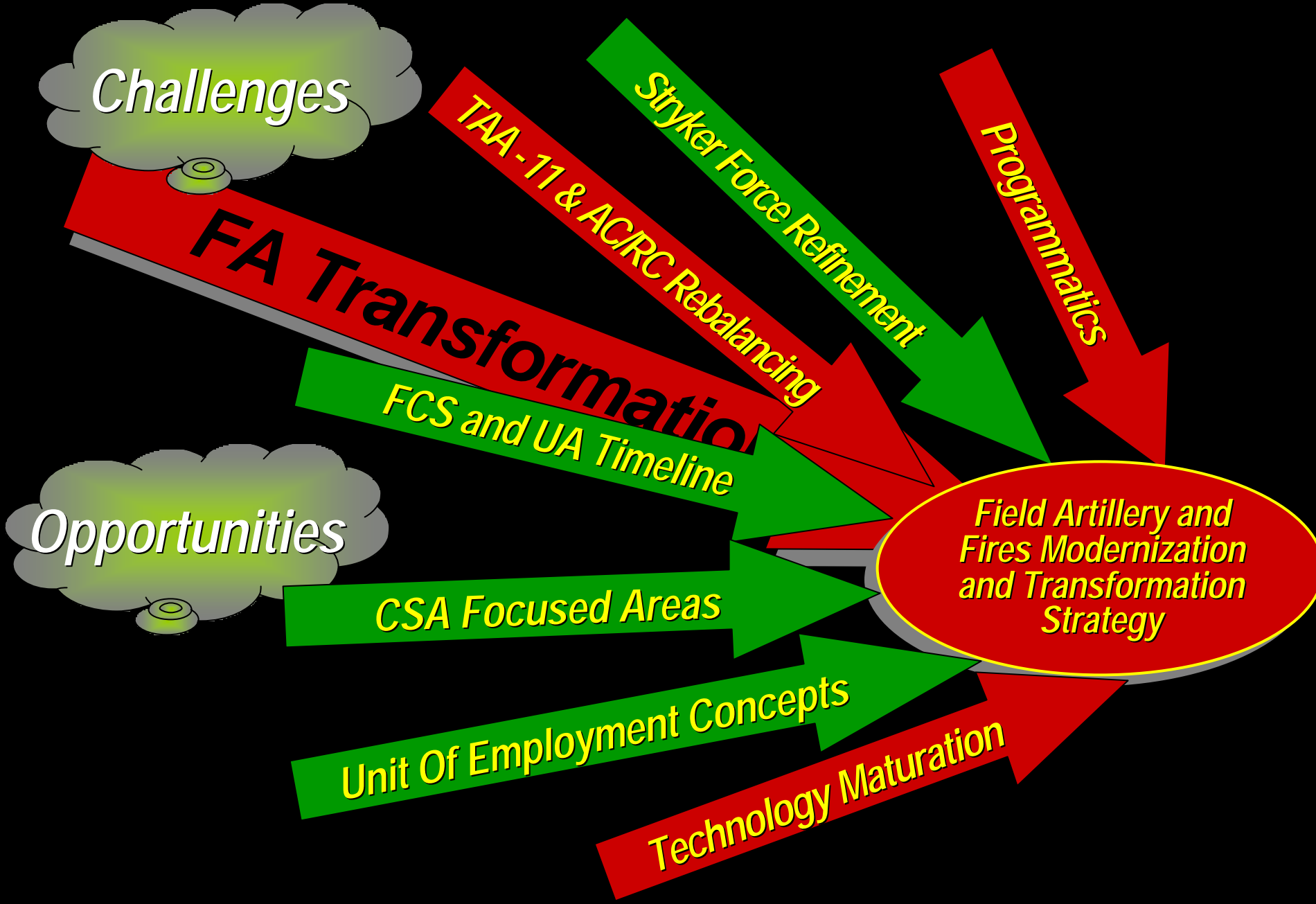
Opportunities

CSA Focused Areas

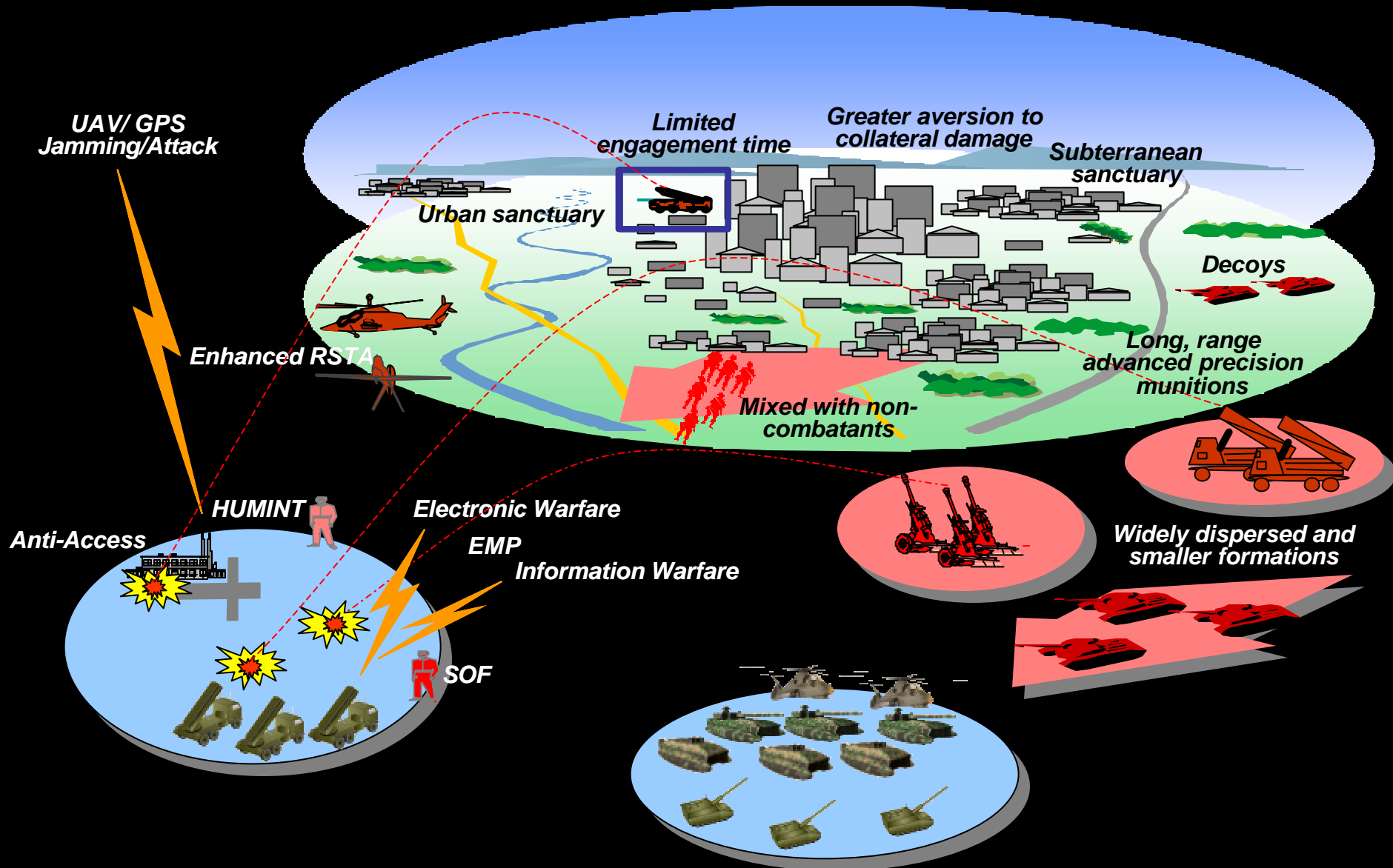
Unit Of Employment Concepts

Technology Maturation

**Field Artillery and
Fires Modernization
and Transformation
Strategy**



Challenges



Future Munitions

Precision



FY 06

Excalibur as cannon
technology carrier

GMLRS rocket as
technology carrier

FY 06



- < 10M CEP
- > 70km range



FY 07

Course
Correcting
Fuzes

- Near-precision with
25-50 CEP

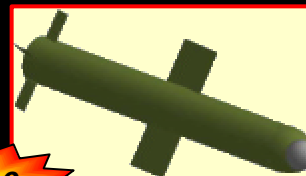
Developed "smart"
submunitions



- SMarT 155
- BONUS
- SADARM PI

Hit to Kill

Precision Attack
Missile



FY 10

- 40km range
- Multi-mode seeker
- Anti-armor capability

Future Target Location

FY 05



**Knight
with FS3**

Stryker with FS3



FY 05

- LRAS3 with LDM
- Designate out to 14km
- 2d Gen FLIR
- Day Video Camera

FY 05



LLDR

- 35 lbs (two man carry)
- 80m TLE at 10km
- Range - 100-9,995 M / ± 5 m
- Eye-safe
- 2d Gen FLIR

FY ??



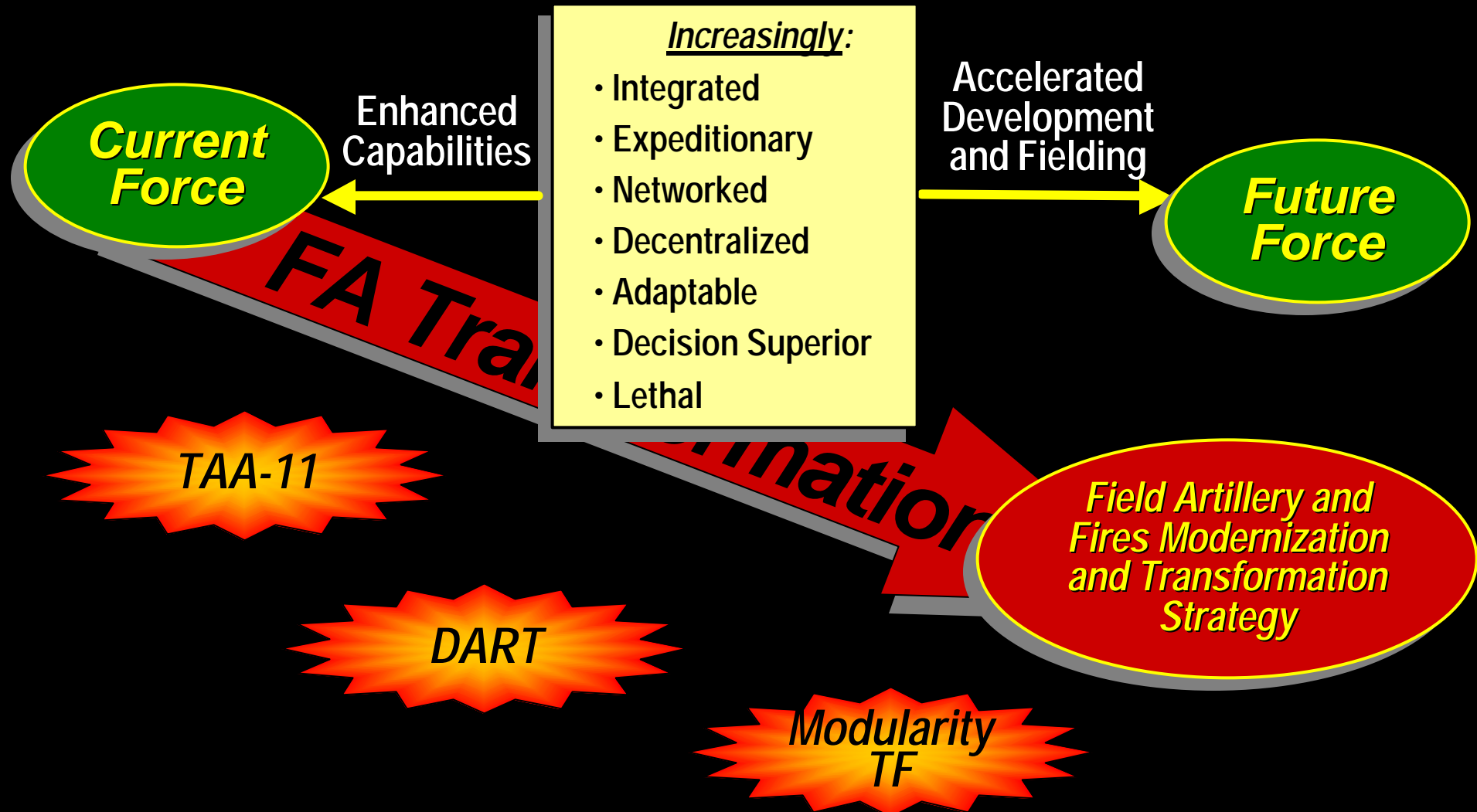
**A3 BFIST
with FS3**

CSA Focus for Battle Command

Top-Down Focus: CSA directed Army shift its funding efforts from developing Battle Command Architecture from its current orientation of developing solution from the Bottom-Up (4th ID and ABCS) to one focused on developing Architecture from the Top-Down. Expecting to stop development of the ABCS suite of software at the current Block IV and redirect all available funding (over \$1B) to fielding a system down to brigades. CSA wants to start with the FY 04 funding and is expecting a BCP (or PCP) for POM 05-09 to change the funding emphasis as fast as we can. CSA wants to focus on what the Commander's Needs are (Top 7).

1. Friendly locations
2. Current enemy situation (ISR and INTEL/FS/AD sensors)
3. Running estimate (current combat power/future combat power/CCIR/BOS staff estimates)
4. Graphic control measures
5. Fragos
6. Commander's SITREP
7. Fire support coordination measures/capabilities overlay

FA Organizational Transformation



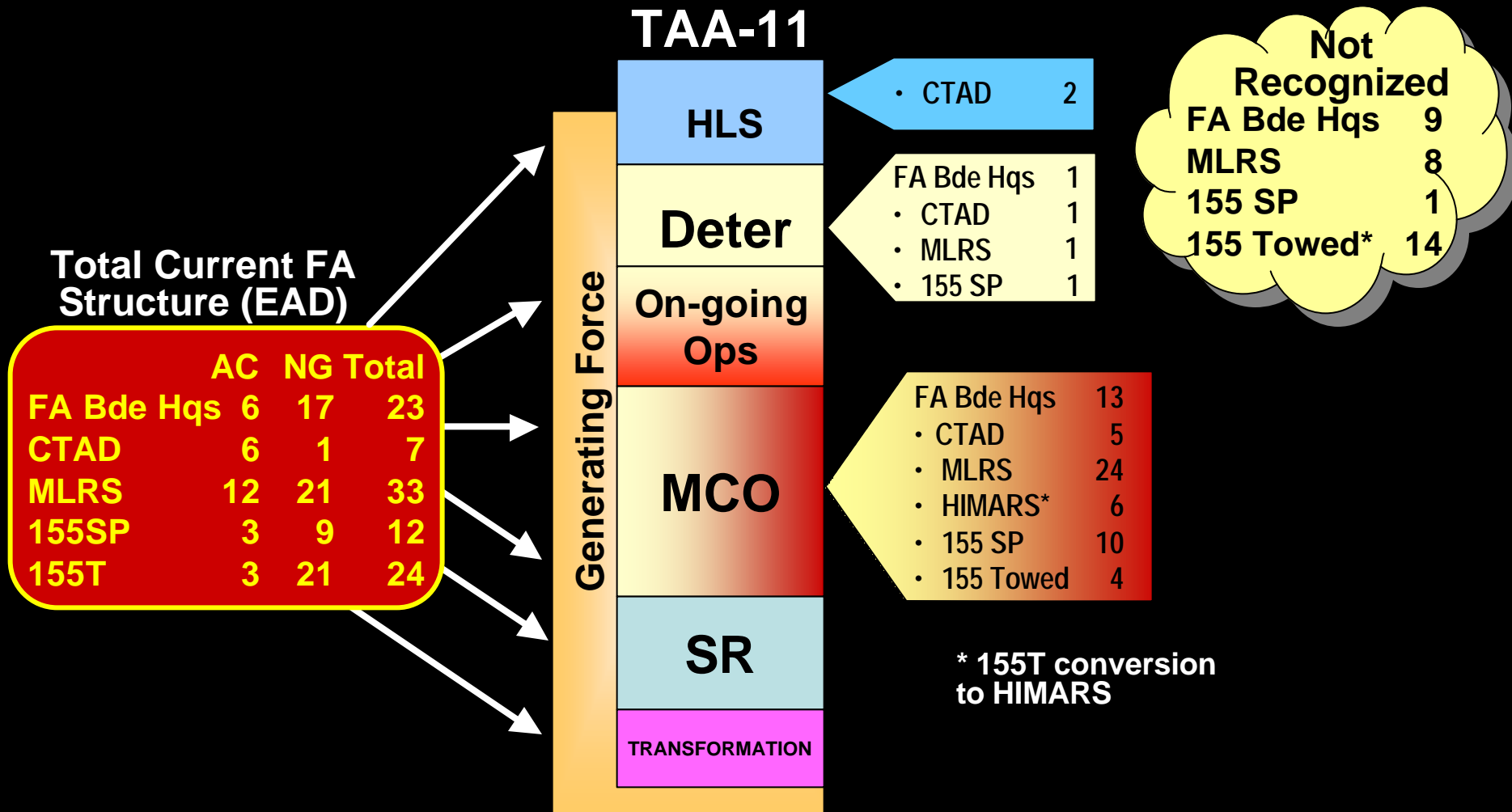
Total Army Analysis-11

Field Artillery Allocation Rules and Force Structure Analysis directed as part of the requirements determination process for Total Army Analysis 2011.

- Determine the appropriate TAA-11 allocation rules for field artillery brigade headquarters and battalions to support current divisions in a Major Combat Operation.

Study did not model Stryker or Future Force organizations and capabilities

Impact on EAD Structure



Structure not recognized available for possible reductions